

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 59756DIV1(49949) 10/554038
INTERNATIONAL APPLICATION NO. PCT/US2004/013703	INTERNATIONAL FILING DATE 30 April 2004	PRIORITY DATE CLAIMED 30 April 2003
TITLE OF INVENTION GEMINI VITAMIN D3 COMPOUNDS AND METHODS OF USE THEREOF		
APPLICANT(S) FOR DO/EO/US Luciano Adorini et al.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.		
2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.		
3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.		
4. <input type="checkbox"/> The US has been elected (Article 31).		
5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <div style="margin-left: 20px;">                     a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).                      b. <input type="checkbox"/> has been communicated by the International Bureau.                      c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).                 </div>		
6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <div style="margin-left: 20px;">                     a. <input type="checkbox"/> is attached hereto.                      b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).                 </div>		
7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <div style="margin-left: 20px;">                     a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).                      b. <input type="checkbox"/> have been communicated by the International Bureau.                      c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.                      d. <input checked="" type="checkbox"/> have not been made and will not be made.                 </div>		
8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).		
9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).		
10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
<b>Items 11 to 20 below concern document(s) or information included:</b>		
11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.		
12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.		
13. <input checked="" type="checkbox"/> A preliminary amendment.		
14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.		
15. <input type="checkbox"/> A substitute specification.		
16. <input checked="" type="checkbox"/> PCT Power of Attorney documents.		
17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.		
18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).		
19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		

RECORDED - 19 OCT 2004

PTO-1390 (Rev. 07-2005)

Approved for use through 03/31/2007. OMB 0651-0021

U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 24pt; font-weight: bold; text-align: center;">10/554038</div>	INTERNATIONAL APPLICATION NO. PCT/US2004/013703	ATTORNEY'S DOCKET NUMBER 59756DIV1(49949) Express Airbill No.: EV 711312140 US																				
20. <input checked="" type="checkbox"/> Other items or information: PCT International Published Application (WO 2004/098522 A2) (123 pages) Copy of International Search Report (8 pages) Return Receipt Postcard																						
The following fees have been submitted																						
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)) ..... \$300	<b>CALCULATIONS</b> \$ 300.00	<b>PTO USE ONLY</b>																				
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4).....\$0 All other situations .....\$200	\$ 200.00																					
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) .....\$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....\$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....\$400 All other situations.....\$500	\$ 100.00																					
<b>TOTAL OF 21, 22 and 23 =</b>		\$ 600.00																				
<input checked="" type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Total Sheets</td> <td style="width: 15%;">Extra Sheets</td> <td style="width: 35%;">Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td style="width: 35%;">RATE</td> </tr> <tr> <td>107 - 100 =</td> <td>7 /50 =</td> <td>1</td> <td>x \$250.00</td> </tr> </table>	Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	107 - 100 =	7 /50 =	1	x \$250.00	\$ 250.00													
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE																			
107 - 100 =	7 /50 =	1	x \$250.00																			
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$ 130.00																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">CLAIMS</td> <td style="width: 20%;">NUMBER FILED</td> <td style="width: 20%;">NUMBER EXTRA</td> <td style="width: 20%;">RATE</td> <td style="width: 20%;"></td> </tr> <tr> <td>Total claims</td> <td>49 - 20 =</td> <td>29</td> <td>x 50.00</td> <td>1,450.00</td> </tr> <tr> <td>Independent claims</td> <td>1 - 3 =</td> <td></td> <td>x</td> <td>0.00</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+</td> <td></td> </tr> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		Total claims	49 - 20 =	29	x 50.00	1,450.00	Independent claims	1 - 3 =		x	0.00	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+			
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																			
Total claims	49 - 20 =	29	x 50.00	1,450.00																		
Independent claims	1 - 3 =		x	0.00																		
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+																			
<b>TOTAL OF ABOVE CALCULATIONS =</b>		\$ 2,430.00																				
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		1,215.00																				
<b>SUBTOTAL =</b>		\$ 1,215.00																				
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$																				
<b>TOTAL NATIONAL FEE =</b>		\$ 1,215.00																				
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		\$																				
<b>TOTAL FEES ENCLOSED =</b>		\$ 1,215.00																				
Amount to be refunded:		\$																				
Amount to be charged		\$																				

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

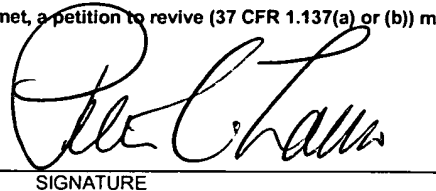
- a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☒ Please charge my Deposit Account No. 04-1105 in the amount of \$ 1,215.00 to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit  
Account No. 04-1105 . A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information  
should not be included on this form. Provide credit card information and authorization on PTO-2038

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be  
filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Peter C. Lauro  
EDWARDS & ANGELL, LLP  
P.O. Box 55874  
Boston, Massachusetts 02205  
(617) 439-4444

CUSTOMER NUMBER: 21874

  
SIGNATURE

Peter C. Lauro  
NAME

32,360  
REGISTRATION NUMBER

Docket No.: 59756DIV1(49949)  
Express Airbill No.: EV 711312140 US

Application No. (if known): Not Yet Assigned

Attorney Docket No.: 59756DIV1(49949)

## Certificate of Express Mailing Under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, Airbill No. EV 711312140 US in an envelope addressed to:

MS PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

on October 19, 2005  
Date



Signature

Peter C. Lauro

Typed or printed name of person signing Certificate

32,360  
Registration Number, if applicable

(617) 439-4444  
Telephone Number

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Transmittal Letter to the United States Designated-Elected Office (3 pages)  
PCT International Published Application (WO 2004/098522 A2) (123 pages)  
Preliminary Amendment (13 pages)  
Application Data Sheet (3 pages)  
Information Disclosure Statement (2 pages)  
IDS (Citation) by Applicant (3 References) (1 page)  
Copy of International Search Report (8 pages)  
Copies of PCT POA documents (7 pages)  
Return Receipt Postcard  
Charge \$1,215.00.00 to deposit account 04-1105